

Periodically taking stock of progress and accomplishments is second nature to most individuals, companies, government officials, and organizations. So it is no surprise that leaders, stakeholders, regulators, and vendor companies involved in or familiar with the U.S. EPA's Environmental Technology Verification (ETV) program frequently consider whether the word is getting out about ETV.

The ETV program and the Advanced Monitoring Systems (AMS) Center, which is managed by Battelle, use typical communication methods to publicize the program, e.g., monthly newsletters, exhibits at major conferences, news announcements, technology field days, and the web site (<http://www.epa.gov/etv>), which averages more than 40,000 "hits" monthly.

Through June 30, a total of 118 technologies had been verified under the ETV program. How to increase awareness of the ETV program and its value to users of verified

'ETV Word' Is Being Heard, Sources Say

technologies is often discussed at the AMS Center's twice-yearly meetings of its air and water stakeholder committees. Participants at the March meetings had opinions about the program, including these examples:

- *ETV is creating a demand for better technologies.*
- *Verification reports were used (by her company) three times last month to make a determination of insurability.*
- *State regulators and permittees have the greatest ability to motivate the market for verified technologies.*
- *Invited speakers at the stakeholder meetings (agency officials) can help publicize ETV.*

Others are helping to inform people about the importance of using commercially available innovative technologies to solve problems that threaten human health. In May, U.S. Senator Bob Smith (R-NH), chairman of the Environment and Public

Works Committee, held a field hearing in Durham, NH, to discuss innovative environmental and energy technologies. Sen. Smith said, in part, "...it is critical that we think outside the box and explore emerging technologies that will improve the quality of our environment."

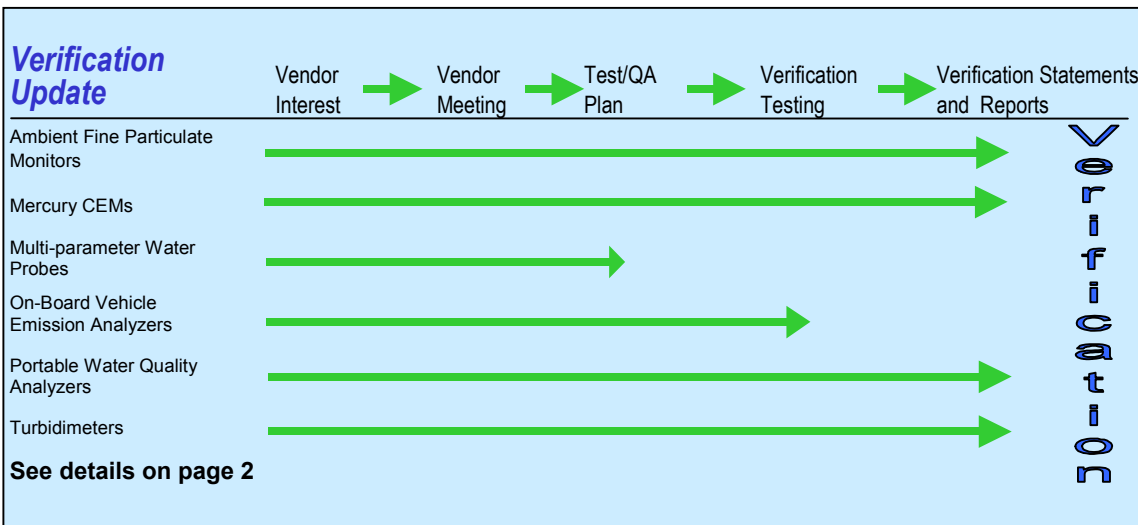
Several federal agencies are collaborating in joint technology verification efforts. For example, the U.S. Department of Defense's Environmental Security Technology Certification Program (DoD/ESTCP) and the U.S. Coast Guard (USCG) have signed agreements with EPA/ETV to work together on verification tests.

In recent verification tests, the AMS Center has collaborated with EPA's National Risk Management Research Laboratory (NRMRL), the Massachusetts Department of Environmental Protection (DEP), and the U.S. Department of Energy's (DOE) National Energy Technology Laboratory (NETL).

(See 'ETV Word' on Page 2)

Call for Information

The AMS Center's stakeholder committees want to determine if there are commercially available technologies that can monitor emission sources for sulfur trioxide (SO₃) or chlorine. Contact Tom Kelly at 614-424-3495 or kellyt@battelle.org.



The AMS Center is part of the U.S. Environmental Protection Agency's Environmental Technology Verification Program. ETV was established to accelerate the development and commercialization of improved environmental technologies through third-party verification testing and reporting of the technologies' performance. The ETV process provides purchasers and permittees with an independent assessment of the technology they are buying or permitting and facilitates multi-state acceptance. For further information, contact Helen Latham at Battelle, 505 King Ave., Columbus, Ohio 43201-2693; Phone 614-424-4062; Fax 614-424-5601; E-mail lathamh@battelle.org.

Meet the Stakeholder Committees

Two members of the AMS Center's stakeholder committees are periodically spotlighted in *The Monitor*—one each from the air and water committees.



Lindene Patton
Air Stakeholder
Committee

Lindene Patton is the director of the Risk Management & Executive Counsel at Zurich U.S. Specialties and manages the risk engineering services provided to environmental, architectural, and engineering clients. She serves as a resource for both brokers and the insured to assist in developing risk management solutions for their environmental and pollution exposure risks.

Ms. Patton has spearheaded the development of policies addressing special risks for property transfers under the federal Base Realignment and Closure (BRAC) legislation. Working with Zurich underwriters, she designed programs to support BRAC inter-governmental transfers—such as the historic Presidio in San Francisco, CA—addressing hazardous remediation actions and environmental restoration issues. She also completed review and insurance design for the sale of a large multi-national manufacturing operation with facilities in more than 90 countries.

Ms. Patton has a B.S. in biochemistry from the University of California at Davis; an M.S. in public health from the University of California at Berkeley, and a J.D. from the Santa Clara University School of Law. She is a licensed attorney in both the state of California and the District of Columbia and is also an American Board of Industrial Hygiene-certified industrial hygienist.



Thomas Gargan II
Water Stakeholder
Committee

Thomas Gargan is a research project manager at Geo-Centers, Inc., at the U.S. Army Center for Environmental Health Research at Fort Detrick, MD. He has a B.S. in zoology and an M.S. in entomology from Colorado State University, and earned a Dr. P.H. in epidemiology at the School of Public Health, University of California at Los Angeles.

Dr. Gargan manages the U.S. Army's Science and Technology Objective (STO), "Rapid Analysis of Food and Water for Chemical and Microbial Contamination." The U.S. Army requires devices and equipment that will rapidly detect chemical and bacterial contaminants in water sources to validate their safety for consumption and use by U.S. forces in the field. This STO focuses on exploiting and applying new technologies in chemistry, genetics, and immunology to create new field medical products that will rapidly identify the presence of contaminants in water, including bacteria and other microbes associated with fecal contamination, agricultural pesticides, and toxic industrial chemicals.

Dr. Gargan served as a medical entomologist in the U.S. Army Medical Service Corps for 20 years, melding the environmental and biological sciences with public health. Dr. Gargan is an adjunct assistant professor in the Department of Preventive Medicine and Biometrics, Division of Tropical Public Health, Uniformed Services, University of the Health Sciences in Bethesda, MD. He is a member of the Entomological Society of America and the American Mosquito Control Association. Dr. Gargan is also an ad hoc reviewer for the *Journal of Medical Entomology* and the *Journal of the American Mosquito Control Association*.

'ETV Word' (from page 1)

Following is the status of the AMS Center's verification tests and reports:

Ambient fine particulate monitors. Verification reports and statements for the 13 monitors tested are expected to be available on the ETV web site by late summer. For further information, contact Ken Cowen, 614-424-5547 or cowenk@battelle.org.

Mercury CEMs. Four instruments submitted by three vendors were tested in January in the first phase of the CEMs. Verification test reports are being reviewed by peer reviewers and EPA staff. Phase 2 of the verification test is to be conducted at a full-scale facility, e.g., incinerator. Contact: Tom Kelly, 614-424-3495 or kellyt@battelle.org.

Multi-parameter water probes. At least three vendors are expected to participate in this test, which is scheduled this fall. Battelle is discussing collaborating on this test with a division of the National Oceanic and Atmospheric Administration. Contact: Jeff Myers, 614-424-7705 or myersjd@battelle.org.

On-board vehicle emission monitors. A four-day verification test of an on-board emission monitor in gasoline-powered vehicles was conducted in May for Clean Air Technologies of Buffalo, NY. The final verification report and statement are expected to be issued by September. Contact Tom Kelly (see above).

Portable water quality analyzers. A verification test was completed in February at seven locations for the Nitrate Elimination Co., Inc.'s (NECI) portable field nitrate test kit. Two vendors have agreed to participate in the second round of testing, which will focus on arsenic analyzers and is scheduled to begin in August. Contact Adam Abbg, 614-424-5484 or abbg@battelle.org.

Turbidimeters. The verification report for the instrument submitted by ABB of Lombard, IL, is expected to be available by late summer. Contact Ken Cowen (see above).

Upcoming Events

September 2001

9-14 Environmental Technology Verification Workshop, India

October 2001

4-5 AMS Center's water stakeholder committee, Coeur d'Alene, ID
18-19 AMS Center's air stakeholder committee, Seattle, WA